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CLAIMS:

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1. An electrowetting device comprising a variable element and a control system for the variable element, wherein the control system is adapted to provide an asymmetric voltage waveform to the variable element.

- An electrowetting device, as claimed in claim 1 having a peak voltage to effective voltage ratio of less than $2^{1/2}$.
 - 3. An electrowetting device as claimed in claim 1 or claim 2, in which the voltage waveform supplied is substantially rectilinear.

4. An electrowetting device as claimed in any preceding claim, in which the control system is adapted to provide a variable pulse width and/or wave height.

- An electrowetting device as claimed in claim 4, in which positive and negative sections of the voltage waveform have different heights.
 - An electrowetting device as claimed in claim 4 or claim 5, in which the control system is adapted to provide positive and negative sections of the waveform having different pulse widths.
 - 7. An electrowetting device as claimed in any preceding claim, in which the variable element is a variable focus lens.
- 8. An electrowetting device as claimed in any preceding claim, in which the voltage waveform has a frequency much greater than a mechanical resonance frequency of a meniscus of a conducting liquid of the variable element.

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- 9. An electrowetting device as claimed in any preceding claim, in which the voltage waveform has a frequency less than the frequency above which a capacitor formed by the device is not substantially fully charged.
- An variable lens, variable filter and/or variable diaphragm incorporating an electrowetting device as claimed in any one of claims 1 to 9.
 - An image capture device incorporating an electrowetting device as claimed in any one of claims 1 to 9.

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- 12. A telephone incorporating an image capture device incorporating an electrowetting device as claimed in any one of claims 1 to 9.
- 13. A method of controlling an electrowetting device comprises supplying an asymmetric voltage waveform to a variable element of the electrowetting device.
 - A method of controlling an electrowetting device, as claimed in claim 13, in which said waveform has a peak voltage to effective voltage ratio less than 2^{1/2}.
- A method of controlling an electrowetting device as claimed in claim 13 or claim 14, in which the voltage waveform is a substantially rectilinear voltage waveform.
 - A method of controlling an electrowetting device as claimed in any one of claims 13 to 15, in which the voltage waveform has a variable pulse width and/or height.

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- A method of controlling an electrowetting device as claimed in any one of claims 13 to 16, which includes varying the pulse width and/or pulse height to reduce a charging of an insulating layer of the variable element.
- 30 18. A method of controlling an electrowetting device as claimed in claim 17, which includes determining a particular waveform having reduced charging of the insulating layer and providing that waveform to the variable focus lens.